

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18 (canceled)

Claim 19 (currently amended): A method for medical monitoring of a patient using four extremity electrodes and up to six additional electrodes, wherein said method comprises the steps of:

attaching electrodes to the patient in a manner to obtain ~~up to 5 lead EKG~~ signal data using an electrode selection made from the extremity electrodes and at least one additional electrode;

attaching at least ~~someone~~ of the remaining additional electrodes to the patient in a manner suitable for obtaining ~~a selected one of 12 lead EKG signal data, EEG signal data[[,]] or~~ and IKG signal data; ~~and~~

operating a selection switch (K) for selecting one of the EEG signal data, and IKG signal data to be obtained; and

obtaining ~~up to 5 lead EKG signal data and~~ the selected signal data from the remaining additional electrodes attached to the patent.

Claim 20 (cancelled)

Claim 21 (cancelled)

Claim 22 (cancelled)

Claim 23 (currently amended): The method according to claim 21 further comprising the steps of:

attaching the remaining, additional electrodes to the patient in a manner suitable for obtaining EEG signal data; and

operating the selector switch (K) to select obtaining EEG signal data~~aa-second position (II)~~.

Claim 24 (currently amended): The method according to claim 21 further comprising the steps of:

attaching the remaining, additional electrodes to the patient in a manner suitable for obtaining IKG signal data; and

operating the selector switch (K) to select obtaining IKG signal data~~aa-third position (III)~~.

Claim 25 (currently amended): The method according to claim 19 further comprising the steps of:

attaching at least one remaining, additional electrodes to the patient in a manner to obtain EEG signal data from the patient;

attaching at least one further remaining additional electrodes to the patient in a manner to obtain EMG signal data from the facial region of the patient; and

obtaining EEG and EMG signal data from the electrodes attached to the patient.

Claim 26 (currently amended): The method according to claim 19 further comprising the steps of:

attaching remaining, additional electrodes to the patient in a manner to obtain EEG signal data; and

calculating, from the obtained EEG signal data, an index describing a depth of the anesthesia of the patient.

Claim 27 (currently amended): The method according to claim 19 wherein ~~EKG signal data and EEG signal data~~ isare obtained and the electrodes used to obtain EKG signal data and the electrodes used to obtain EEG signal data include a common neutral electrode.

Claim 28 (currently amended): The method according to claim 19 further comprising the steps of:

determining impedance relations among the electrodes; and
ascertaining from the impedance relations the locations on the patient at
~~manner in which the~~ additional remaining electrodes are attached ~~to the patient~~.

Claim 29 (cancelled)

Claim 30 (currently amended): A system for medical monitoring apparatus comprising:

an electrode set including four patient extremity electrodes adapted to be attached to a patient (P) for obtaining EKG signal data;

up to six additional electrodes adapted to be attached to a patient (P), one of said additional electrodes being includable in said electrode set;

signal conductors connected to said electrodes;

measuring equipment comprising electrocardiographic (EKG) measuring equipment, ~~and at least one of an~~ electroencephalographic (EEG) measuring equipment and impedance cardiographic (IKG) measuring equipment; and

a selector switch (K) interposed between said conductors and said measuring equipment for selecting the measurement to be carried out such that ~~said electrode set provides an up to 5-lead EKG signal data to said electrocardiographic (EKG) measuring equipment, and the additional electrodes provide a selected one of 12-lead EKG signal data to said electrocardiographic (EKG) measuring equipment when said selector switch is in a first position (I), EEG signal data to said electroencephalographic (EEG) measuring equipment when said selector switch is in a second position (II), or IKG signal data to said impedance cardiographic (IKG) measuring equipment when said selector switch is in a third position (III).~~

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Claim 31 (currently amended): The system according to claim 30 further comprising:

preamplifier means coupled to said additional electrodes, ~~said preamplifier means providing signals for the 12-lead EKG signal data~~, said preamplifier means having means coupled to selected ones of said additional electrodes for use in obtaining IKG signal data when said switch means is operated~~the operation of said system is transferred from obtaining 12-lead EKG signal data to obtaining IKG signal data.~~

Claim 32 (currently amended): The system according to claim 30 further comprising:

preamplifier means coupled to said additional electrodes for determining impedance relations among the electrodes for use in ascertaining the locations on the patient ~~at manner in~~ which the electrodes are attached to the patient.